

*Presentation for the Symposium on BEER*

*November 2020*

# Two Reductions of a Mathematical Model of Competitive Binding

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A microarray can serve as a model for identification of single nucleotide protein (SNP) mutation in DNA. We model this competitive binding process with a nonlinear system of ordinary differential equations. We consider a reduction of the system in two different physically limiting cases, which correspond to two different dimensionless formulations.